

Title (en)

A system and method using multiple component pane handlers configured to handle and transfer component panes

Title (de)

System und Verfahren mit verschiedenen Handhabungsvorrichtungen für Komponentenscheiben zur Handhabung und Übertragung von Komponentenscheiben

Title (fr)

Système et méthode utilisant de multiple manipulateurs de panneaux à composants pour manipuler et transporter des panneaux à composants

Publication

**EP 2523213 B1 20191218 (EN)**

Application

**EP 12167910 A 20120514**

Priority

- SG 2011034188 A 20110512
- SG 2011034253 A 20110512
- SG 2011034220 A 20110512

Abstract (en)

[origin: EP2523213A2] A system and method for transferring component panes (e.g., film frames) from a component pane storage station to a vacuum table assembly. The system includes a number of component pane handlers, for instance two component pane handlers, and a pick and place mechanism or arm. The component pane handler transfers the component panes from the storage station to the pick and place mechanism. The system includes an alignment module or structure configured to facilitate or effectuate spatial alignment of the component pane while the component pane is coupled to or carried by the component pane handler. The alignment module can be carried by the pick and place mechanism. Spatial alignment of the component pane can be substantially completed before transfer of the component pane from the component pane handler to the pick and place mechanism. The pick and place mechanism includes a set of vacuum (or suction) elements or pads that enables pick up of the component pane from the component pane handler as well as release and pick up of the component pane at the vacuum table assembly.

IPC 8 full level

**H01L 21/677** (2006.01); **H01L 21/683** (2006.01); **H01L 21/687** (2006.01)

CPC (source: EP KR US)

**H01L 21/67144** (2013.01 - KR); **H01L 21/67265** (2013.01 - KR); **H01L 21/67742** (2013.01 - KR); **H01L 21/67766** (2013.01 - EP US); **H01L 21/67778** (2013.01 - EP US); **H01L 21/68** (2013.01 - KR); **H01L 21/6838** (2013.01 - EP KR US); **H01L 21/68707** (2013.01 - EP KR US); **H05K 13/0408** (2013.01 - KR); **Y02T 10/88** (2013.01 - KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2523213 A2 20121114**; **EP 2523213 A3 20170419**; **EP 2523213 B1 20191218**; CN 102779775 A 20121114; CN 102779775 B 20150826; HK 1173557 A1 20130516; IL 218981 A0 20120628; IL 218981 A 20151029; KR 101937949 B1 20190111; KR 20120127343 A 20121121; MY 166192 A 20180607; PT 2523213 T 20200219; TW 201250912 A 20121216; TW I550759 B 20160921; US 2012288352 A1 20121115; US 8834091 B2 20140916

DOCDB simple family (application)

**EP 12167910 A 20120514**; CN 201210151546 A 20120514; HK 13100547 A 20130111; IL 21898112 A 20120402; KR 20120051182 A 20120514; MY PI2012700222 A 20120425; PT 12167910 T 20120514; TW 101117165 A 20120514; US 201213470369 A 20120514